Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP 2018-12-11-56** **Date: 05-08-2017**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-56 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-08-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	133	215	21.5	78.5	60-95	75-100	85-100	95-100
4	1.18 mm	179	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	186	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	173	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	156	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP 2018-12-11-56** **Date: 05-08-2017**

Sample ID No : 2018-12-11-56 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.24	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	6.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP 2018-12-11-56** **Date: 19/08/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Address : T. Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15

Agency : Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73

Customer's Reference : ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಅ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2017

Sample ID No : 2018-12-11-56 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	19/08/2017	149.36 X 150.90 X 151.96	22538	8.154	291.0	12.9	12.4
2	PCC	M15	12/08/2017	19/08/2017	150.69 X 151.66 X 151.43	22852	8.220	279.4	12.2	
3	PCC	M15	12/08/2017	19/08/2017	150.35 X 150.13 X 149.71	22572	9.037	273.3	12.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP 2018-12-11-56** **Date: 09/09/2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Address : T. Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15

Agency : Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73

Customer's Reference : ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಅ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2017

Sample ID No : 2018-12-11-56 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/09/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/08/2017	09/09/2017	151.39 X 151.11 X 150.08	22876	8.445	400.9	17.5	17.6
2	PCC	M15	12/08/2017	09/09/2017	151.17 X 150.43 X 149.31	22740	8.958	402.3	17.7	
3	PCC	M15	12/08/2017	09/09/2017	149.89 X 150.34 X 151.62	22535	8.528	394.0	17.5	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP 2018-12-11-56** **Date: 12-08-2017**

Customer : Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.

Address : T. Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15

Agency : Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73

Customer's Reference : ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-08-2017

Sample ID No : 2018-12-11-56 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/08/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	165.51	250.48	1.116	21511	80.9	3.8	3.5	4.4
2	Cover Slab-2	165.49	250.52	1.122	21506	82.3	3.8	3.6	4.4
3	Cover Slab-3	165.50	250.51	1.118	21508	81.5	3.8	3.5	4.4

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP 2018-12-11-56 **Date: 07-08-2017**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP,
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-56 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-08-2017
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.14	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP 2018-12-11-56**	**Date: 01-09-2017**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15	
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73	
Customer's Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-08-2017	
Sample ID No	:	2018-12-11-56 /01	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	04-08-2017	
Environmental Conditions during test	:	Temperature: Humidity:	26°C 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.6N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.2N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.6N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP 2018-12-11-56** **Date: 05-08-2017**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Embankement and Site Preparation to Indira Canteen in Ward No.15
Agency	:	Sri. Shrirama Reddy, no. 62, Behind of Widia, Ashok Nagar, Nagasandra, Bangalore - 73
Customer Reference	:	ಕಾ.ಅ/ದಾ.ವಿ/ಕಾ.ಆ/ /2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-08-2017
Sample ID No	:	2018-12-11-56 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-08-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	223	223	4.5	95.5	90-100
3	10 mm	2421	2644	52.9	47.1	25-55
4	4.75 mm	2131	4775	95.5	4.5	0-10
5	Pan	225	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP 2018-12-11-56** **Date: 05-08-2017**

Sample ID No : 2018-12-11-56 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.28	_
7	Aggregate crushing Value(%)	25.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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